

Syllabus
U.S. Department of Energy Office of Science's Community College Initiative (CCI)
Brookhaven National Laboratory (BNL)

June 2 – August 8, 2003

Week I (June 1-6) Students participate in Enrichment Component and work in their laboratories

Sunday, June 1 Arrival

Dormitory Check-in
Welcome Dinner with OEP staff at the Brookhaven Center

Monday, June 2

Arrival – local students
Dormitory Check-in
Students spend morning in attendance at the new appointee orientation for all summer students.

Students spend afternoon at Safety Lecture, department check-in, meeting their mentors, and shopping at the local grocery center.

Tuesday, June 3

Students attend second morning of orientation. OEP staff presents an overview of the Office of Science Research at the Laboratory. Students take pre-survey through EduLink
8:30 – noon - First day of Enrichment Component that includes: Introduction to program parameters, student information and survey card; final team research preparations, introduction to overview discussions, scientific thought and literacy. Journal distribution, discussion of student programmatic deliverables, and research paper that each student will produce. Students take additional safety training as required. Department tour.

Wednesday, June 4

8:30 – noon - Students participant in second day of Enrichment Component, which includes:
Topic overview: The scientific method
Support Presentation: overview of AGS & low-level radioactive waste management.
Research Investigation: Thermal Insulatory Values
Department tours and Part I - 3-hour computer basics workshop. Students take additional safety training as required.

Thursday, June 5

8:30 – noon - Students participant in third day of Enrichment Component that includes:
Topic overview: Environmental Principles I
Support Presentation: waste water treatment
Research Investigation: waste management technology and water chemistry. Department tours and Part II – 3-hour computer basics workshop. Students take additional safety training as required.

Friday, June 6

8:30- noon Enrichment Component continues.
Topic overview: Environmental Principles II
Support Presentation: advances in anesthesia and surgery
Research Investigation: forensic human histology
Report to research department in the afternoon

June 9 -13 (Week 2) Students work in their laboratories Tuesday through Friday

Monday, June 9

8:30 – 3:00 Enrichment Component continues each Monday covering various topics:

- **Technical Presentations**
- **General discussions regarding assignments**

- **Pay check distribution**

June 16-20 (Week 3) Students work in their laboratories Tuesday through Friday
Student satisfaction survey

Monday, June 16 Enrichment Component continues each Monday covering various topics:

- **Poster Board Presentations**
- **General discussions regarding assignments**
- **Paycheck distribution**

June 23-27 (Week 4) Students work in their laboratories Tuesday through Friday
Abstracts – first draft due

Monday, June 23 Enrichment Component continues each Monday covering various topics:

- Student guided tours of each others' labs
- **Ethics in science**
- **General discussions regarding assignments**
- **Pay check distribution**

June 30- July 2 (Week 5) Students work in their laboratories Monday, Tuesday, and Wednesday

Thursday and Friday, July 3 & 4 Holidays, Laboratory Closed

July 7 - 11 (Week 6) Students work in their laboratories Tuesday through Friday

Monday, July 7 Enrichment Component continues each Monday covering various topics:

- **Student guided tours of each others' labs**
- **General discussions regarding assignments**
- **Environmental Science workshop**
- **Pay check distribution**

July 14-18 (Week 7) Students work in their laboratories Tuesday through Friday
Abstracts – updates due
Student satisfaction survey

Monday, July 14 Enrichment Component continues each Monday covering various topics:

- **Leadership development**
- **Career enhancement**
- **Student guided tours of each others' labs**
- **General discussions regarding assignments**
- **Field trip**
- **Pay check distribution**

July 21 -25 (Week 8) Students work in their laboratories Tuesday through Friday

Monday, July 21 Enrichment Component continues each Monday covering various topics:

- **Students share research paper ideas**
- **Student guided tours of each others' labs**
- **General discussions regarding assignments**
- **Environmental Science workshop**
- **Field trip**

- **Pay check distribution**

July 28-Aug 1 (Week 9) Students work in their laboratories Tuesday through Friday

Monday, July 28

Enrichment Component continues each Monday covering various topics:

- **Students hold trial presentations**
- **Technical Presentations Review**
- **Poster Board Presentations**
- **Pay check distribution**

August 4 – 8 (Week 10) Students work in their laboratories and on their presentations all week. No Enrichment Component

Wednesday, August 6

Poster Presentations - dry run

Thursday, August 7

Poster Presentations & Closing Ceremonies

Friday, August 8 Last Day.

Students' products due:

- **Research paper and abstract (hard copy)**
- **Electronic copies of poster session, technical presentation, and research paper**
- **BNL exit survey**
- **DOE Post survey through EduLink**
- **Paycheck distribution**
- **Dormitory check-out/departure**